

INFORMATIVE SECRET

Yugoslavia

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Steam Power-Plant in Velenje

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1. The Steam Power-Plant in Velenje is on the Sostanj-Velenje-Colje highway (precise location, 46°22'20" N 15°6'15"E), about 1,200 yards from the Velenje railroad station on the Celje-Dravograd line. The main building, size 100 x 50 x 12 m., is of reinforced concrete with a flat tin roof and contains the boiler room, turbine room, control room, transformers, and the offices. The building has large windows on all sides. Capacity of the power-plant is 7,200 kw. It consists of three units of which one has a power output of 5,000 kw, and the other two of 1,100 kw each. The steam turbine, which operates with a pressure of 38 to 42 atmospheres, is on the same axle with the generator and the exciter. The combined units operate normally at a speed of 3,000 revolutions per minute.

Near the power-plant there is a tower, 25 m. high, which serves for condensation and cooling of water. Steam, piped from the turbine, is condensed into water and cooled in the tower. Water so obtained is then piped back into the boiler. On the opposite side of the main building there is an open-air distributing station with 60 and 110 kV open-air distributing devices. The power-plant receives its coal from the brown coal mine in Velenje, located behind the power-plant. Coal is moved into the plant by means of small box cars which can operate on the plant's narrow-gauge track. Lubricants are obtained from State petroleum enterprises in Ljubljana.

2. The power-plant receives 100 kV from the hydro-electric plant in Dravograd. This voltage is stepped down to 60 kV by a 16,000 kw transformer. The maximum intake of electricity from Dravograd is limited to the capacity of this transformer, i.e. 16,000 kw. From Velenje, a 60 kV line runs to a relay station in Podlog, near St. Peter, in the Savinjska Dolina. Another 20 kV line runs to Gustanj and Mezica. The Gustanj Iron Works and the Mezica mines are thereby supplied with energy from the power plants in Velenje and Dravograd.

A 110 kV line, Velenje-Mariborski Otok (new hydro-electric plant) and a 110 kV line, Velenje-Lasko, are in the planning stage.

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3. The power-plant was built as part of reparation payments after the first World War by the Austrian firm of Brown-Boveri, Vienna. The machines are in good condition and operate up to full normal capacity. Defects occur repeatedly in the boiler pipes, but less frequently than in other Slovene steam power-plants. The administration of the Slovene State Electric Power System is at present planning to supply all steam power-plants with new piping. However, neither material nor money is available. The power-plant is owned by the Slovene Republic.
4. In 1948 the management of the power-plant changed three times. At present, the managing director is Engr. Franc ROJIC, 40 years old, pre-war member of the Yugoslav National Party (JNS) and war-time member of the OF. His assistant is Engr. Ivan CENIC of Ljubljana, aged 35.

The plant employs approximately 60 workers, the majority of whom are experienced electricians, mechanics, and machinists.

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